## Amendments to the Claims

This listing of claims will replace all prior listings of claims in the application.

## Listing of Claims

1. (Currently amended) A sulfuric acid recycle apparatus for recycling sulfuric acid in a wafer cleaning fluid prepared by mixing sulfuric acid and hydrogen peroxide solution comprising:

a reaction bath having two openings formed of at least an introduction port and a discharge port for obtaining concentrated sulfuric acid by concentrating sulfuric acid in the wafer cleaning waste fluid introduced from the introduction port upon completion of a wafer cleaning process, then discharging the concentrated sulfuric acid fromsaid reaction bath including therein a plurality of partition plates for changing an advancing direction of the wafer cleaning waste fluid, and an inclination plate positioned at a portion closer to the discharge port than the partition plates so that the concentrated sulfuric acid flows along a surface thereof and then discharges into the discharge port;

- a wafer processing bath for processing wafers; and
- a supply unit for supplying the concentrated sulfuric acid to the wafer processing bath.
- 2. (Original) The sulfuric acid recycle apparatus according to Claim 1, wherein the reaction bath includes therein heating units for heating the wafer cleaning waste fluid and a gas discharge port for discharging a gas produced from the wafer cleaning waste fluid when it is heated by the heating unit; and

a suction unit for sucking the gas is connected to the gas discharge port.

## (Cancelled)

- 4. (Currently amended) The sulfuric acid recycle apparatus according to Claim 31, wherein the inclination plate has irregularities on its surface.
- 5. (Currently amended) The sulfuric acid recycle apparatus according to Claim 1, wherein for recycling sulfuric acid in a wafer cleaning fluid prepared by mixing sulfuric acid and hydrogen peroxide solution comprising:

a reaction bath having two openings formed of at least an introduction port and a discharge port for obtaining concentrated sulfuric acid by concentrating sulfuric acid in the wafer cleaning waste fluid introduced from the introduction port upon completion of a wafer cleaning process, then discharging the concentrated sulfuric acid from the discharge port;

the reaction bath <a href="https://has.including.com/has.including

a wafer processing bath for processing wafers; and
a supply unit for supplying the concentrated sulfuric
acid to the wafer processing bath.

- 6. (Cancelled)
- 7. (Cancelled)
- 8. (New) The sulfuric acid recycle apparatus according to Claim 5, wherein the reaction bath includes therein heating units for heating the wafer cleaning waste fluid and a gas discharge port for discharging a gas produced from the wafer cleaning waste fluid when it is heated by the heating unit; and

a suction unit for sucking the gas is connected to the gas discharge port.

- 9. (New) The sulfuric acid recycle apparatus according to Claim 5, wherein the reaction bath includes therein a plurality of partition plates for changing an advancing direction of the wafer cleaning waste fluid, and an inclination plate positioned at a portion closer to the gas discharge port than the partition plates for allowing the concentrated sulfuric acid to flow along the surface thereof.
- 10. (New) The sulfuric acid recycle apparatus according to Claim 9, wherein the inclination plate has irregularities on its surface.
- 11. (New) The sulfuric acid recycle apparatus according to Claim 1, wherein the reaction bath includes a waterdrop storage bath attached to a ceiling surface of the reaction bath for preventing waterdrop from being mixed with the concentrated sulfuric acid.